

Practice: Solve for the variables.

31. $x - 2 = 10$

$x = 12$

32. $\frac{x}{6} = -4$

$x = -24$

33. $5x = -25$

$x = -5$

34. $x - (-7) = -4$

$x = -11$

35. $-2x - 2 = 7$

$x = -3$

36. $\frac{x}{4} - 2 = 1$

$x = 12$

37. $9x - 7 = -7$

$x = 0$

38. $-6 + \frac{x}{4} = -5$

$x = 4$

39. $2(n+5) = -2$

$n = -6$

40. $144 = -12(x+5)$

$x = -17$

41. $7(p+x) = 84$

$x = 3$

42. $\frac{x+5}{-16} = -1$

$x = 11$

43. $a+5 = -5a+5$

$a = 0$

44. $p-4 = -9-p$

$p = -\frac{5}{2}$

45. $5y-14 = 8y+4$

$y = -6$

46. $y-1 = 5y+3y-8$

$y = 1$

47. $-18-6y = 6+18y$

$y = -1$

48. $5n+34 = -2(1-7n)$

$n = 4$

49. $3(5x-3x)+5 = 47$

$x = 7$

50. $26a-22 = -4(1-6a)$

$a = 9$

51. $3x+2(x+2) = 13-(2x+2)$

$x = 1$

38. $-6 + \frac{x}{4} = -5$

$\begin{array}{r} +6 \\ \hline \end{array}$

$4 \cdot \left(\frac{x}{4}\right) = 1 \cdot 4$

$x = 4$

40. $144 = -12(x+5)$

$144 = -12x - 60$

$\begin{array}{r} +60 \\ \hline \end{array}$

$204 = -12x$

$\begin{array}{r} -12 \\ \hline \end{array}$

$-17 = x$

44. $p-4 = -9-p$

$\begin{array}{r} +p \\ \hline \end{array}$

$20-4 = -9$

Solving Equations (with variables squared)

Remember: Get the variable squared alone and then square root both sides of the equation.

Ex: $x^2 - 2 = 7$
 $+2 +2$
 $\sqrt{x^2} = \sqrt{9}$
 $x = \pm 3$

$\sqrt{x^2} = \sqrt{25}$
 $x = \pm 5$

Practice:

52. $y^2 = 16$

$y = \pm 4$

53. $z^2 = 81$

$z = \pm 9$

54. $x^2 + 3 = 28$

$x = \pm 5$

55. $x^2 - 5 = 95$

$x = \pm 10$

56. $2y^2 = 72$

$\frac{2y^2}{2} = \frac{72}{2}$
 $y^2 = 36$
 $y = \pm 6$

57. $3x^2 = 27$

$x = \pm 3$

The Coordinate Plane

Remember: When plotting points, move in the x direction first and then the y direction.
 (x, y)

Practice: Give the coordinates for the identified point.

58. E $(0, 3)$

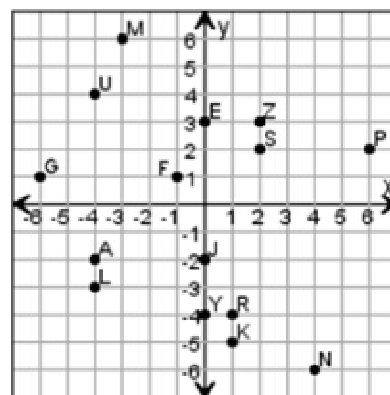
59. P $(6, 2)$

60. L _____

61. M _____

62. Y _____

63. F _____



Practice: Graph and label the following points on the coordinate plane.

64. A $(-1, 5)$

65. B $(0, 4)$

66. C $(6, -3)$

67. D $(-4, 0)$

68. E $(2, -2)$

69. F $(1, -6)$

